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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/629,857	07/30/2003	Yasunori Nakamura	030918	6154		
23850	7590 09/23/2004		EXAMINER			
	NG, KRATZ, QUINTO	CHEUNG, WILLIAM K				
1725 K STRE SUITE 1000	EI, NW	ART UNIT	PAPER NUMBER			
	ON, DC 20006	1713				

DATE MAILED: 09/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary			Application No.		Applicant(s)	•		
			10/629,857		NAKAMURA ET AL.			
		E	Examiner		Art Unit			
			William K Cheung		1713			
Period fo	The MAILING DATE of this commun or Reply	ication appea	rs on the cover shee	t with the c	orrespondence address	;		
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions 'SIX (6) MONTHS from the mailing date of this comm a period for reply specified above is less than thirty (3) period for reply is specified above, the maximum starte to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a) nunication. 0) days, a reply wi atutory period will a will, by statute, ca	a). In no event, however, ma thin the statutory minimum of apply and will expire SIX (6) I suse the application to becom	ny a reply be tim f thirty (30) days MONTHS from the ABANDONE	ely filed will be considered timely. the mailing date of this commun (35 U.S.C. § 133).	ication.		
Status								
1)[[X]	Responsive to communication(s) file	ed on <i>19 May</i>	2004					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□ 8)□ Applicat	Claim(s) 1-12 is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers The specification is objected to by the The drawing(s) filed on is/are:	re withdrawn ction and/or e e Examiner.	election requirement.		examiner.			
11)	Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	the correction	is required if the draw	ving(s) is obj	ected to. See 37 CFR 1.1			
	•	•						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice (3) Information	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (Pmation Disclosure Statement(s) (PTO-1449 or Proof No(s)/Mail Date		Paper I					

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DETAILED ACTION

In view of Preliminary Amendment, new claims 8-12 have been added. Claims 1 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 1-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Chatterjee (US 5,922,471).

The invention of claims 1-12 relates to a polypropylene-based resin composition for metallized films, comprising:

- (A) **100 parts by weight of a propylene random copolymer** having the properties (a-1) to (a-5):
 - (a-1) propylene unit present at 88 to 99.5% by mol, and ethylene and/or butene structural unit present at 0.5 to 12% by mol,
 - (a-2) melt flow rate (MFR_A) of 1 to 30g/10 minutes,
 - (a-3) **polydispersity index** (PI), determined by the melt viscoelasticity analysis, of **2.4 to 4**,
 - (a-4) **solubles** contained at 20°C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and

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(a-5) **solubles** contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at **4.0%** by weight or less, and the solubles having a weight-average molecular weight of **0.1x10⁴** to **8.0x10⁴**,

- (B) **0.0 1 to 6 parts** by weight of a **polyethylene** resin having a density of **0.945 to 0.980g/cm³**, **melt index (MI_B) of 1 to 1000g/10 minutes**, and ratio of
 MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of **0.7 to 1000**,
- (C) **0.01 to 0.7 parts** by weight of an **antiblocking agent** having an average particle size of **1.0 to 5.0µm** and pore volume of **1.7mL/g or less**,
- (D) 0.01 to 0.5 parts by weight of an antioxidant having a molecular weight of 500 or more, and
- (E) 0.005 to 0.5 parts by weight of a hydrotalcite-based compound.

Chatterjee (abstract) discloses polypropylene random copolymer resins for metallized film applications. Further, Chatterjee (col. 2, line 21 to col. 4, line 55) clearly teach using applicants' claimed components (antioxidant, hydrotalcite, HDPE, antiblocking agent) (col. 4, Table I and II) in specific ranges. Although Chatterjee does not provide a working example to demonstrate applicants' claimed invention in a single embodiment, however, it would not be difficult to one of ordinary skill in art to obtain the invention of claims 1-12 after reading the specific component teachings (antioxidant, hydrotalcite, HDPE, antiblocking agent) in Chatterjee.

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Regarding the claimed "polyethylene resin having a density of 0.945 to 0.980g/cm³, melt index (MI_B) of 1 to 1000g/10 minutes, and ratio of MI_B to MFR_A, i.e., (MI_B/MFR_A) ratio, of 0.7 to 1000", applicants must recognize that these recited properties are typical properties of high density polyethylene as recognized by one of ordinary skilled in the polyolefin industries.

In view of the substantially identical composition and intended used disclosed in Chatterjee and the composition and intended use being claimed, the examiner has a reasonable basis to believe that the claimed "solubles contained at 20 °C or lower, determined by cross fractionation chromatography (CFC), at 1.5% by weight or less, and the solubles having a weight-average molecular weight of 0.1x10⁴ to 6.0x10⁴, and (a-5) solubles contained at 40°C or lower, determined by cross fractionation chromatography (CFC), at 4.0% by weight or less, the solubles having a weight-average molecular weight of 0.1x10⁴ to 8.0x10⁴", melting point characteristics, the mathematical relationship of claim 6 are inherently possessed in Chatterjee. Since the PTO does not have proper means to conduct experiments, the burden of proof is now shifted to applicants to show otherwise. In re Best, 562 F.2d 1252, 195 USPQ 430 (CCPA 1977); In re Fitzgerald, 205 USPQ 594 (CCPA 1980).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (571) 272-1097. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William K. Cheung

Primary Examiner

WILLIAM K. CHEUNG PRIMARY EXAMINER

September 21, 2004